molift®

MOVER 205

OPERATOR MANUAL

CE

molift®
by Etac

BM05101 Molift Mover 205

Table of content

General advice 3
Explanation of symbols 3
Before using the patient lifter 3
Responsibility 3

Safety precautions 4
General 4
If defects or faults occur 4
Lift and transfer 4

About the product 5
Main parts 5
Safety devices 5

Technical data 6

Assembly / disassembly 7
Assembly and use of charger 7
Unpacking 7
Assembly 7
Checklist before use 8
Disassembly 8

Operation 8
Battery care and charging 8
Battery capacity 9
Operating the hand control 9
Emergency stop and lowering 9
Lift and transfer 10
Use of spread legs 10
Using lifting slings 10
Lift and movement to and from bed 11
Lift and transfer to and from floor 12
Lift and transfer to and from (wheel)chair 13
Bathing 14
Toileting 15

Equipment 16
Quick release suspensions 16
Supporting arms 16
Castor with directional lock 16
Molift Stretcher 17
Integrated charger 17
Chassis Low base 17

Accessories 18
Lifting sling 18

Maintenance 19
Daily maintenance 19
Monthly maintenance 19
Periodic inspection 19
Service 20
Troubleshooting 20
Labelling 21
Checklist for periodic inspection 22

IMPORTANT!

The patient lifter is only meant to be used by qualified personnel.

The manual shall not be handed over, or made available to, any unauthorised third party, without a prior written consent from Etac Supply Gjøvik. Existing laws, conventions and agreements protects all documents. No extract of this documentation can be re-produced, used or transferred without pri-or written consent from Etac Supply Gjø-vik. Violation of these regulations may lead to judicial repercussions and economic responsibility. Industrial rights are reserved.

molift by Etac

Etac AS, Etac Supply Gjøvik
Hadelandsveien 2
2816 Gjøvik, Norway
Teleph: (+47) 40001004 *www.molift.com*
Fax: (+47) 40001008 *molift@etac.com*

General advice

This user manual contains important safety instructions and information regarding the use of the lifter. Carefully read the manual before using the lifter in order to be familiar in the function and use of the lifter.

Explanation of symbols

This symbol is used to point out instructions and information related to work place safety where injury may occur if the information is disregarded or ignored. Follow these instructions, be careful and attentive at all times.

This symbol indicates important information regarding the use of the equipment. If not taken into consideration, it may lead to damage or functional defects to the lifter or other equipment.

This symbol indicates important and useful information. If taken into consideration, it will help the operator of the lifter to work efficiently. It may help simplify routines and to explain complicated facts.

Before using the patient lifter

Before using a patient lifter, the operator must be trained accordingly. Practice lifting a colleague, and be lifted by others. It is important not only to know how to move another person using the lifter, but also how it is to be lifted. Try out and practice using all the relevant slings for the different types of lifter and movement you may encounter. Before lifting a person, you should explain the procedure.

When using the lifter, it's also important to use the correct sling and accessories according to:

- type of disability
- size
- weight
- type of movement

Responsibility

Please read these operating instructions carefully before putting the product into operation. We assume no liability for damage or malfunctions resulting from failure to comply with the instructions. Warranty claims must be made immediately on detecting the defect. Remember to quote the serial number. Consumable parts are not subject to the warranty.

All technical information, data and instructions for operation contained in these operating instructions were up-to-date at time of print and are compiled on the basis of our experience and to the best of our knowledge. We reserve the right to incorporate technical modifications within the scope of further development of the product described in this manual. No claims can be derived from the information, illustrations or descriptions contained in these instructions. We assume no liability for any damage or malfunction caused by operating errors, non-compliance with these operating instructions or inappropriate maintenance. We expressly point out that only genuine Etac AS spare parts and accessories approved by us may be used. For safety reasons, the fitting and use of spare parts or accessories, which have not been approved, and unauthorised modification or conversion of the product, are not permitted. Etac AS will accept no liability for damages resulting from such acts.

With the exclusion of product liability, Etac AS is liable for faults or omissions on its part within the scope of the warranty obligations stated in the purchase contract. Claims for damages are excluded, irrespective of the legal reason from which such claims are derived. Only documentation belonging to the actual equipment is valid.

Any failure to comply with the safety regulations and precautionary measures stated in these operating instructions renders the declaration of conformity supplied with the system in accordance with Council Directive (93/42/EEC) concerning medical devices invalid.

Safety precautions

General

Before putting a Molift Mover 205 into operation, the operator must ensure that the lifter and accessories are in good working order, especially with regards to safety. All instruction and information in this manual regarding safety and general precautions must be read, understood and followed carefully. Any disregard to these precautions may result in personnel injury or damage to the equipment. If a fault associated with the operational safety and reliability is identified, the lifter must be taken out of use immediately and marked "Out of order" or not put into use at all. Safety devices and -equipment must not be removed, disabled or in any other way altered. A Molift Mover 205 shall only be used when all safety devices and equipment is in place and fully operational.Portable and mobile radio frequency (RF) communication equipment may affect medical electrical equipment and should be kept at a distance of 25 cm (10 in.) from the electronics of the lifter.

The lifter is designed for use in room temperature, +5 to +40 °C. Following storage or transport at other temperatures leave the lifter in a room with a suitable temperature until it reaches a safe operating temperature.

The lifter has an expected lifetime of 10 years or 30 000 lifts with max load (SWL), when all recommended service is performed.

Molift Mover 205 should not be in constant use for more than 2 minutes at a time (at maximum load) with an 18-minute interval.

If defects or faults occur

The lifter must be switched off immediately if one of the following conditions occur;

- damage to electrical devices or cables, or damage to parts of electrical insulation
- damage or failure on safety devices

If the lifting movement does not start when the corresponding button is pressed, please consult the fault finding table in the maintenance chapter to locate the fault.

Injury to personnel or equipment may occur if Molift Mover 205 is used in an incorrect manner and if:

- covers are removed by unauthorized personnel
- used incorrectly
- insufficient maintenance
- load exceeds maximum limit. The maximum load stated in this manual and on the lifter is the maximum load
- unauthorized repair of electrical devices or cables

Lift and transfer

The patient lifter may tip over if used incorrectly! Ignorance of warnings and instructions may lead to personnel injury. Read instructions carefully before attempting to lift anyone.

The Molift Mover 205 has a Safe Working Load on 205 kg, meaning that it is tested and approved for lifting of patients up to 205 kg.

Several factors have to be considered during movement of the lifter:

- the user shall sit as low as possible facing the lifting column
- the user should rest their feet on the chassis

Stand to the side of the user when lifting. Ensure that arms and legs are clear of the lift, chair, bed etc. Try to maintain eye contact with the user - this will help the user feel safe and comfortable.

Pay close attention to your actions. Ensure that all four loops of the sling are securely fastened to avoid the user slipping or falling

Use the drive handle to manoeuvre the lift, do NOT attempt to manoeuvre the lift by pushing on the lifting arm, actuator or patient.

Do not touch the underside of chassis or between chassis and legs when manoeuvring the legs.

Molift slings shall ONLY be used to lift persons. NEVER use the sling to lift and/or move objects of any kind.

About the product

Molift Mover 205 is a mobile lifter intended for lifting and transferring persons to/from bed, floor, chair or similar, wheelchair and toilet. The lifter is made out of light-weight materials, has castors and is powered by a battery. It has electrically adjustable legs and a lifting capacity of as much as 205 kg. It is therefore ideal for institutional care settings but can also be used in privates homes and nursing homes. The lifter should only be used for transfers across short distances, such as between a chair and a bed or into bathroom/restroom and cannot replace a wheelchair or similar.

Main parts

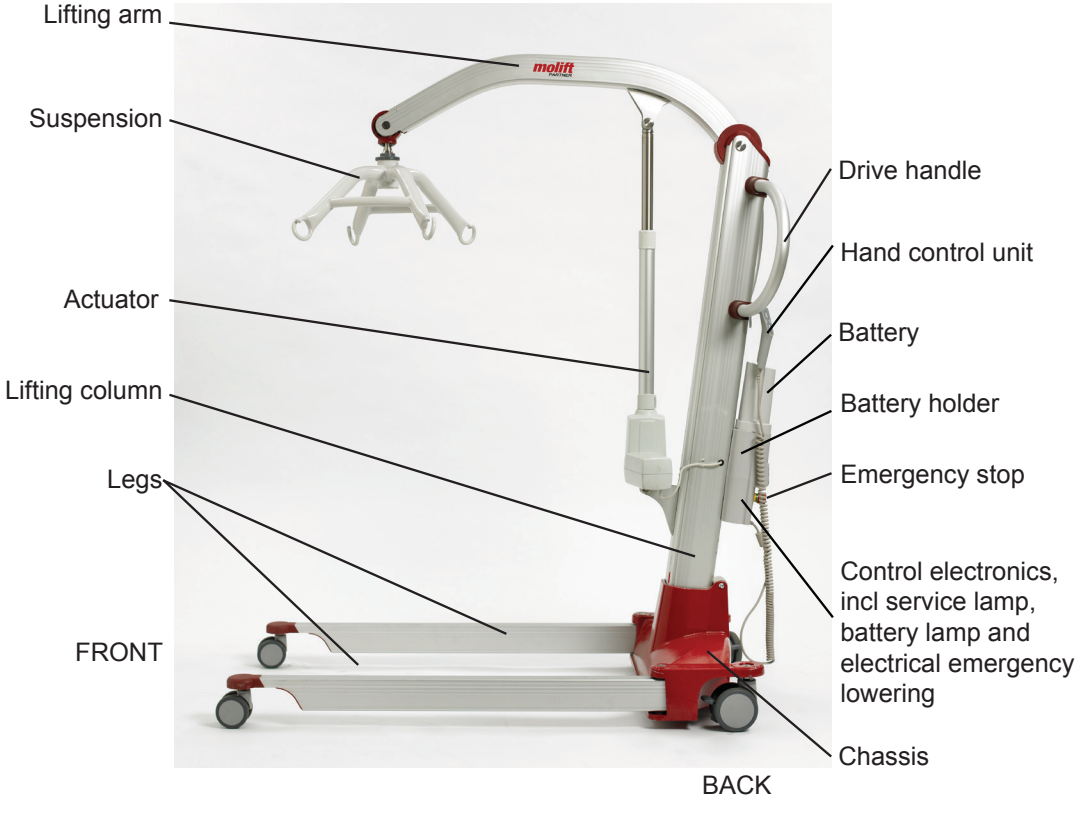
The lifter is built around a chassis unit comprising a lifting column fixing unit, rear castors and spreading mechanism for legs. The adjustable legs are operated by an electrical motor and gives the operator a possibility to adjust the width of the lifter to different needs and situations. On the lifting column there is a drive handle and a battery holder. On the battery holder there is a connection for the hand control and an emergency stop button.

The lifting arm is joined to the top of the lifting column and the battery driven actuator provides the lifting movement. At the end of the lifting arm, you will find the suspension with four hooks to attach the sling. The suspension rotates freely, allowing the Molift Mover 205 to be used at any angle.

Safety devices

Molift Mover 205 is equipped with several safety devices, which are intended to prevent damage to personnel and equipment in the case of incorrect use.

- The lifter has an overload sensor preventing the lifter to be operated with more than 205 kg.
- The lifting arm is hinged to prevent the arm and suspension from squeezing the patient if it is lowered too much. The actuator will not produce any force when moving downwards.
- The suspension has safety hooks to prevent the sling loops to fall off.
- When activating the emergency stop button, the power supply will be disconnected, and the lifter will stop.
- If an error occurs on the lifter, it is possible to lower the lifting arm electrically on the battery holder or manually by operating the emergency lowering switch on top of the column.
- The lifter has a service lamp which gives a signal when the lifter needs service.

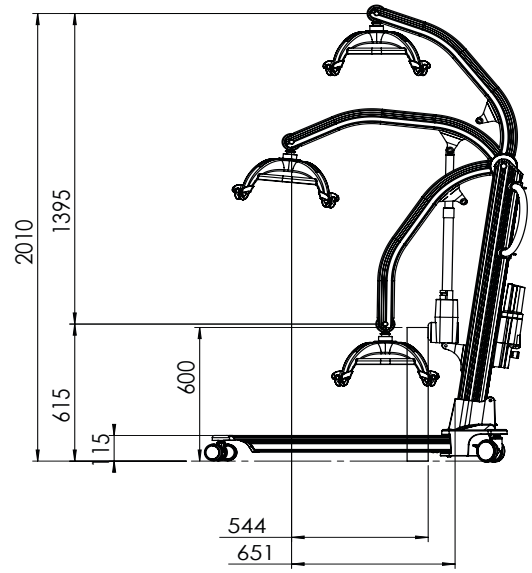


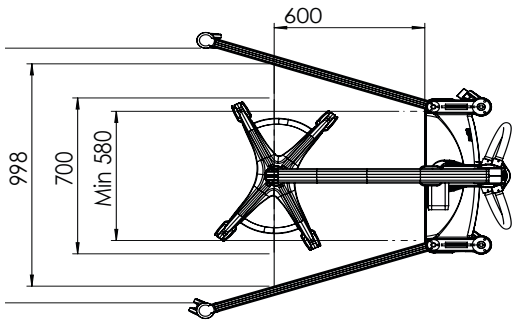
Technical data

Weight, totally:
excl. battery; 39.3 kg /
incl. battery: 40.6 kg
Material:
Steel, aluminium and composite plastic
Motor:
Lifting motor/actuator 24 V DC
Leg spreading motor 12 V DC
Battery:
26,4 V NiMH 2,2 Ah, ATO Fuse 20 A
Battery charger:
Type 2215MV 10-22 cells NiCd/NiMH
Protection:*
IP24
Number of lifts with fully charged battery:
75 lifts (75 kg, 50 cm)
SWL (Safe Working Load):
205 kg
Lifting range:
1395 mm (center suspension)
Lifting speed:
40 mm/sec

Turning diameter:
1400 mm
Sound level, max A-weighted sound power level:
L_{WA}= 63,2 dB
Operating forces:
Buttons on hand control: 3,4 N
Height of legs:
Max 115 mm
Measurements:
1320 x 700 x 1380 mm (LxBxH)

Measurements in illustration below are in millimetres.





Assembly / disassembly

To be able to operate the Molift Mover 205, the operator must have good knowledge of the lift, including assembly, disassembly and preparation before use.

Unpacking

- The lifter comes in one cardboard box. Verify that the box has no apparent damage. If damaged, check the content and contact your dealer for assistance if components are damaged.
- The box contains one complete Mover lifter with hand control, battery and battery charger with mains cable.

Storage: For long time storage it is recommended that the battery is removed and the emergency stop button is activated. The lifter can be stored and transported under the following conditions:

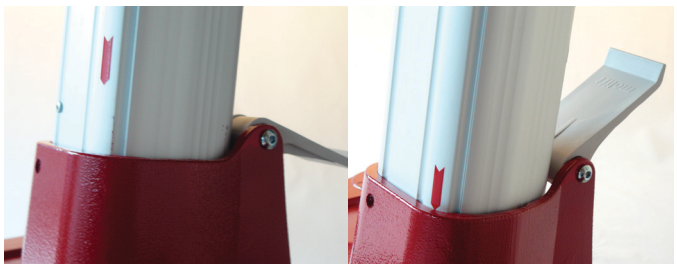
- Pressure: 70 - 106 kPa
- Humidity: 15 - 93 %
- Temperature: -25 - 70 °C

Assembly

- The chassis should be rolled out of the box.

The battery must not be in the battery holder during assembly!

- Place the column in the attachment on the chassis, and push the column down as shown below. The screw in front of the column should fit in the slot inside the chassis.



- Make sure that the red arrow on the lower part of the column corresponds with the edge on the chassis. Fix the column with the lock handle. If the column is not placed correct the lifter will not work.

- Connect the hand control cable to the contact on the underside of the battery holder. The hand control has a hook that makes it possible to hang it on the drive handle or the plastic hooks on the column.
- Place the battery in the holder with the connectors facing down. Release the emergency stop and run each function of the lifter a couple of times without load to verify proper function.
- Mount the suspension by turning the opening in the end cover upwards, and slide the attachment fork in place (as shown below).

- The suspension can only be released in the upper position. When the suspension is hanging free it is locked to the arm.

Etac AS tests all lifters with and without load before shipment. The control is an extra precaution to uncover any shipment damage and/or incorrect assembly.

The lifters electronic system will be active as long as the battery is connected. It is therefore recommended to remove the battery or activate the emergency stop button when storing the lifter.

Checklist before use

- Check that the lifter has no apparent damage or other faults, especially that the suspension has no damage or cracks.
- Ensure that the lifting arm and lifting column are properly fixed and that there is no loose parts on the lifter. The lifting column must be fixed tight in the chassis attachment.
- Check that the emergency button is deactivated and that the lifter works.
- Check that you have sufficiently charged batteries to complete the task you have planned.
- Check that the service lamp gives a green light indicating it is ready for use. If the service lamp gives a yellow or red light, the lifter needs service.

Make sure that the suspension has no damage or cracks, and that the lifting arm and column is properly fixed before use!

Disassembly

The lifter can be disassembled in three parts by removing the suspension, and then the lifting column with arm from the chassis.

- Remove the suspension.
- Run the lifting arm all the way down towards the lifting column.
- Remove the battery.
- Release the lock handle on the chassis and remove the complete lifting column with lifting arm.

The complete lifting column and lifting arm weights approx. 20 kg (without suspension).

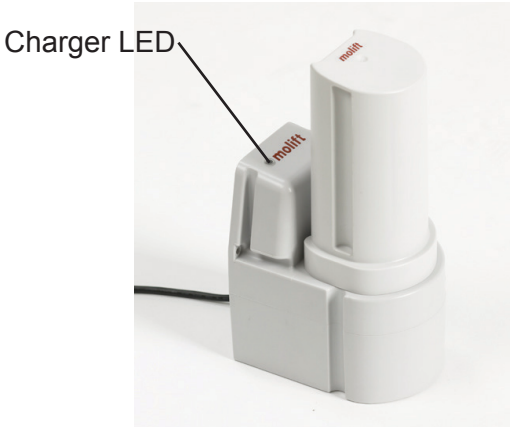
Operation

Battery care and charging

Molift Mover 205 is supplied with a battery with a 26,4 V cell unit that is placed in the battery holder on the lift. A battery charger is also supplied to be located easily accessible, either stand-alone or mounted on the wall. The Charger must be placed or installed in a way that makes it easy to disconnect mains cable plug. Disconnect the charger mains cable plug when the charger is not in use. Take care not to damage the cable

The charger has a LED (Light Emitting Diode) indicating the status of the battery as described below:

LED	Mode
Yellow	No battery
Yellow	Initiation (10 sec)
Orange	Fast charge
Green/yellow	Top-off charge
Green	Trickle charge
Orange/green	Error



Place the battery in the charger. After a few seconds the LED will change from yellow to orange, indicating that the battery is charging. When the LED gives a constant green light the battery is fully charged.

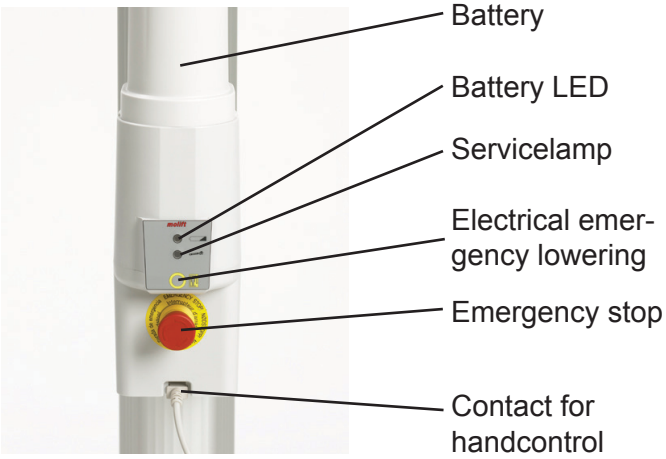
New batteries will not work at full capacity until they have been fully charged and run empty several times

The battery lifetime is about 500 charging cycles.

Battery capacity

A Battery LED is situated on the battery holder on the lift. If the voltage of the battery falls below a certain level, the diode will change to orange, indicating the need for charging. There will also be an audible alarm, which indicates that the battery needs charging. There is still enough capacity to perform 3-5 lift cycles (75 kg) at this point.

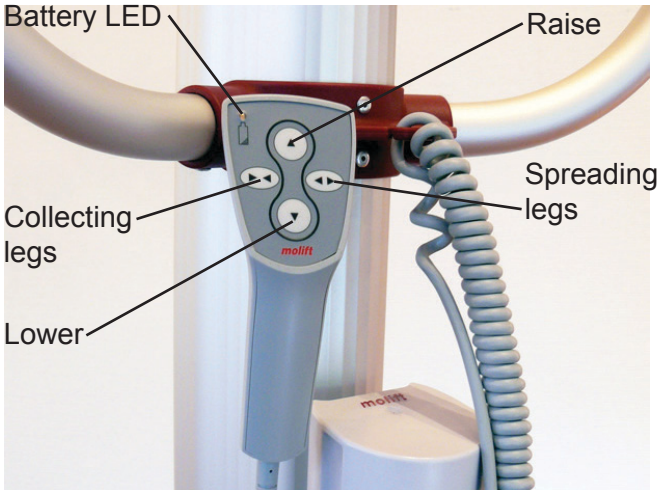
If the battery is discharged during a lift, it is always enough power to lower the user down again.



Operating the hand control

The hand control to Molift Mover 205 has four buttons, two buttons for up and down, and two buttons for adjusting the adjustable legs. In addition there is a green diode which illuminates when the battery needs charging.

Art.no hand control unit: 2018004



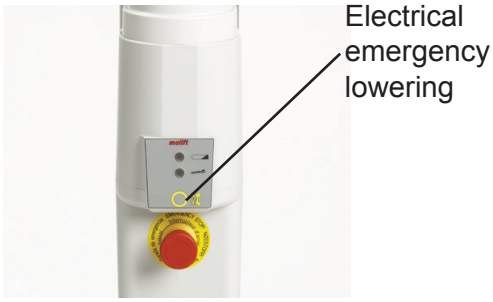
Emergency stop and lowering

Emergency stop

All of the Molift patient lifts are equipped with emergency stop and lowering. The emergency stop button is situated on the battery holder. Push the red button to cut the power to the motor. Turn the button clockwise until it pops up to reset the emergency stop.

Emergency lowering

It is possible to perform an emergency lowering in case of a general malfunction. Molift Mover 205 has both an electrical and manual emergency lowering.



Electrical emergency lowering is placed on the battery holder. Push the button and hold until the patient is lowered.

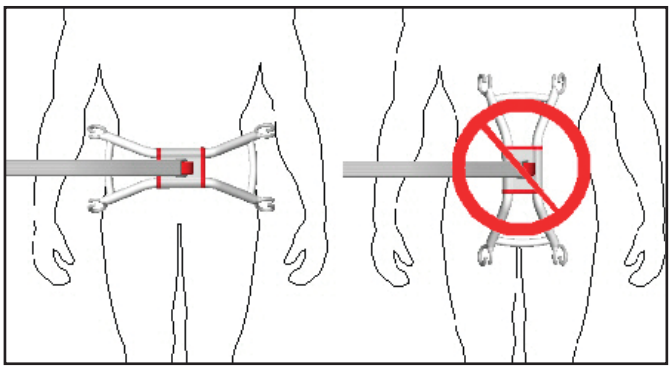
The manually lowering function on the actuator is only to be used if the electrical lowering does not work.

Pull the red handle slightly upwards. Take care, the lifter moves faster when activating the handle more. The lifter will stop dead with a danger of personal injury and damage on the lifter if the handle is released suddenly.

Incorrect use of the manually lowering may lead to damage on lifter or personal injury.

Lift and transfer

The suspension shall always be positioned across the user as shown left in the illustration below.



When using slings intended for two point suspension, the suspension shall be used diagonally, i.e. loops from the sling shall be fastened on hooks diagonally opposite.

Pay close attention to your actions. Ensure that all four loops of the sling are securely fastened to avoid the user slipping or falling.

Try to position the user as low as possible (preferably resting the feet on the chassis) when transferring the lifter with a suspended user. In this way, the centre of gravity will be as low as possible and therefore reducing the risk of instability. The lifter should be manoeuvred with spread legs in outer position to achieve the highest possible stability.

Be careful during movement - the suspended user may swing somewhat during turns, stops and starts. Be particularly careful when manoeuvring close to furniture to prevent the suspended user from colliding with these objects.

The lifter shall not be used to lift or move users on sloping surfaces.

Avoid deep pile carpets, high thresholds, uneven surfaces or other obstacles that may block the castors. The lifter may become unstable if forced over such obstacles increasing the risk of tipping over.

The lifter shall only be used for movement over short distances. It is not a replacement for wheelchair or similar.

Use of spread legs

Use wide legs wherever appropriate, for instance to position the lifter around wheelchairs, toilets etc.

The leg spreading mechanism has a safety function preventing it from sqeezing with high force. This may lead the motor to stop if changing direction quicly. Push another button to start again.

Using lifting slings

The Molift lifting slings are easy to use. Please see the user manual that comes with the sling for specific instructions.

It is recommended to use Molift Easy slings. Slings from other manufacturers may have other specifications leading to unexpected instability and possible injury to personnel.

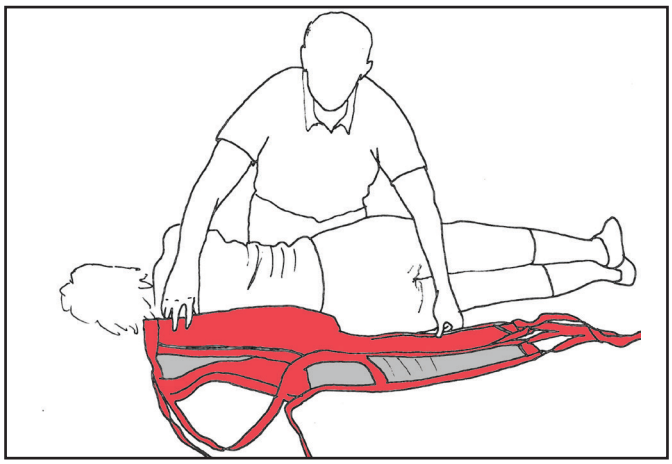
Torn, cut, frayed or broken slings can fail, resulting in serious injury to the user. Use slings in good condition only. Destroy and discard old, unusable slings.

Molift Easy sling

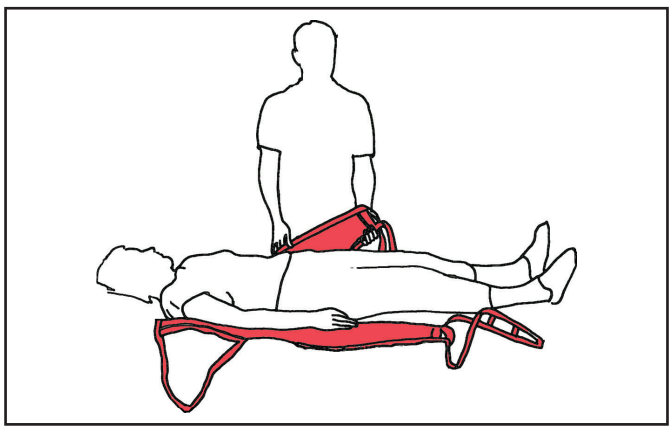
Fold the sling as indicated above before use. The grey side should be facing away from the user when putting the sling in place. The sling should be held by one hand, leaving the other free to move and support the user.

Lift and movement to and from bed

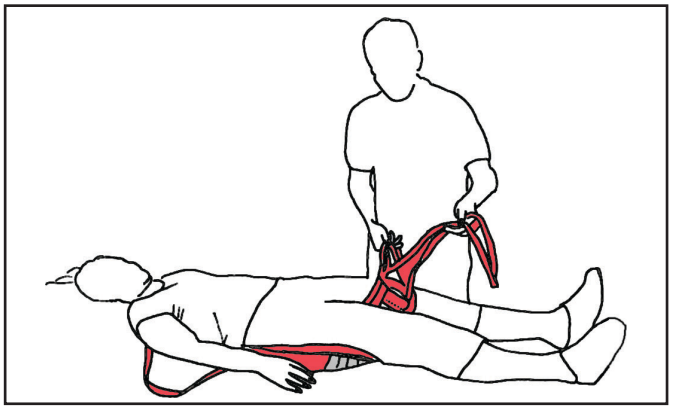
Lift from bed



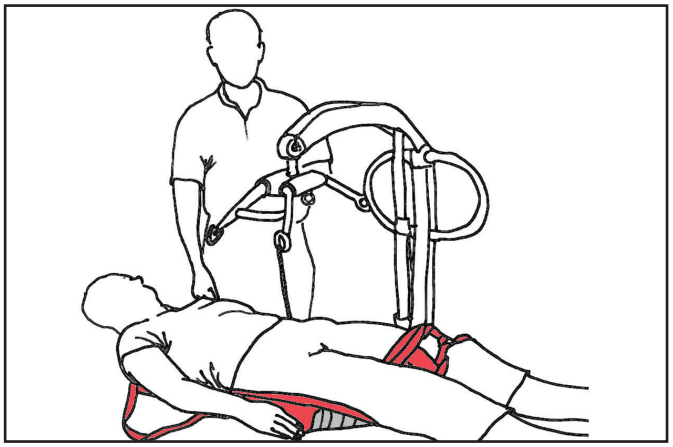
Roll user onto her side. Put the folded sling behind her back. The centre of the sling should be parallel with the users spine. Roll her then onto her back.



Pull the leg loops forward and under the thighs as shown.

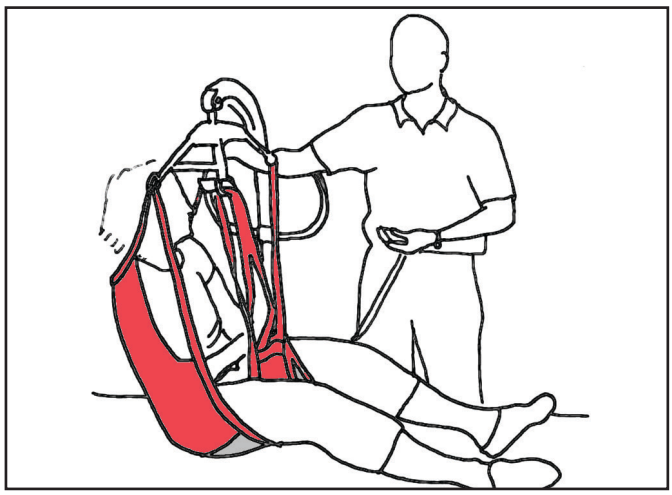


Cross the loops, one through the other.



If the user has a bed which enables raising and lowering, it should be lowered before the lifting starts.

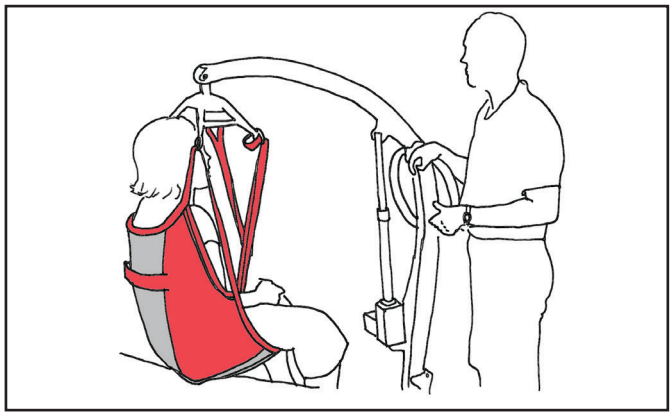
Position the legs under the bed with the suspension over the user. Be careful not to lower the suspension too low touching the user. Make sure that the suspension is centred over the user before you start the lifting. Remember - the castors should not be locked.



When all four loops are hooked onto the suspension, raise the user carefully.

If the user is in a hospital bed, it will help to raise the head of the bed

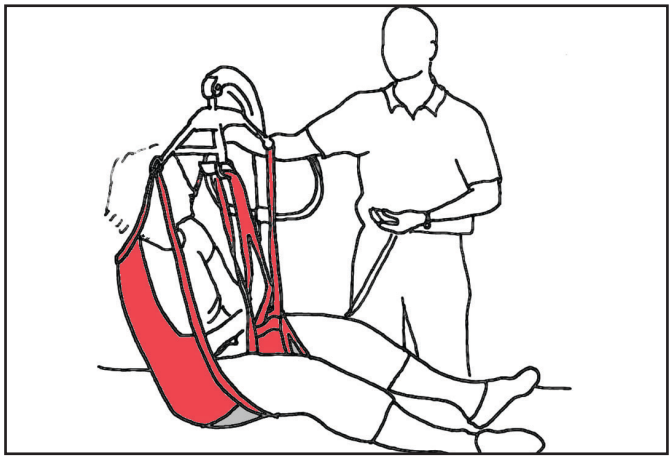
Repositioning of the user may be needed to ensure that a safe and comfortable sitting position is attained as the user is raised. Reposition using the handle on the back of the sling.



Raise the user until the buttocks are just above the mattress. Lift the user's legs and turn her so she faces the lifting column. When clear of bed, and if practical, lower the user so that her feet rest on the chassis. If possible, lower the bed before lifting. Move the lifter away from bed.

Beware of obstructions under the bed that can cause castors to stop or tip

Lift to bed



Centre the user over the bed and turn her so that the feet point to the foot end of the bed. Lower the user carefully. Remove the loops from the suspension.

Removing the sling

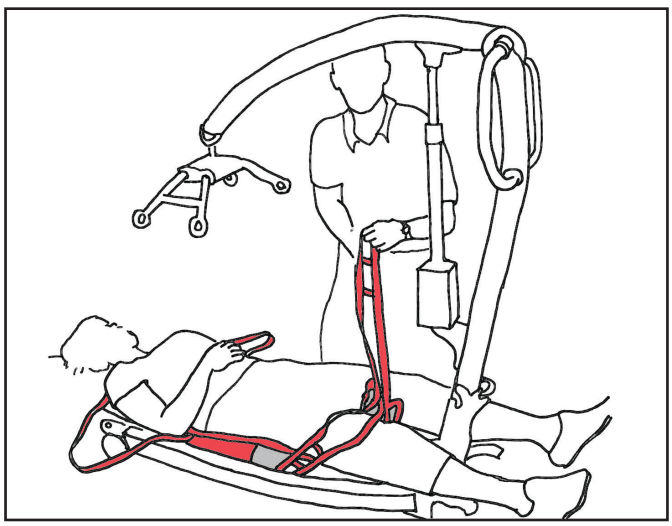
Gently pull leg section to the side, out from the user's thighs and towards yourself. Pull the shoulder section under the neck of the user and roll her gently onto her side. Pull the sling away and roll her onto her back.

Be careful when rolling the user onto her side. Make sure you have control over the movement to prevent her from rolling completely over and out of the bed.

Lift and transfer to and from floor

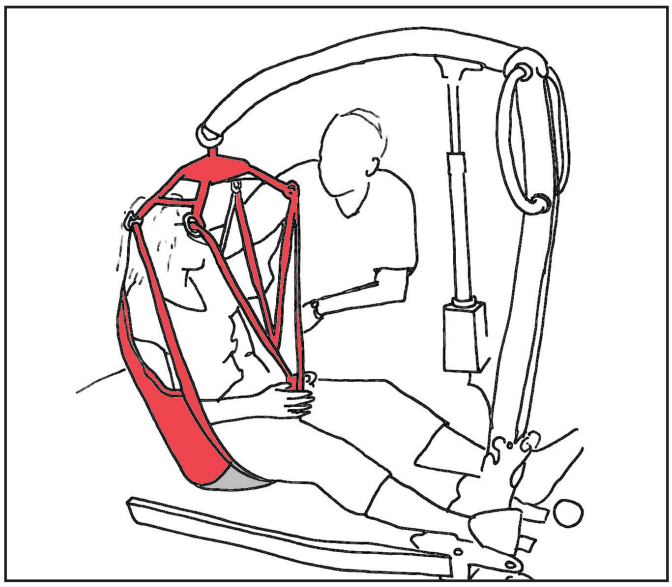
Lift and transfer from the floor is almost identical to a lift and transfer from bed - please read this section. There are two ways to lift from the floor.

Alternative lift 1



Place the sling as if in bed. Gently position the lifting column between the legs of the user as shown above. The suspension shall be centred over the user.

Lower the suspension enough to allow the sling loops to be hooked up.



Raise the user from the floor. Position user in the sling by pulling the handle on the back of the sling. Turn user to face the lifting column, and place the feet on the chassis.

Alternative lift 2

A floor based lift may also be performed by gently positioning the users head on the chassis. Use a pillow if appropriate to protect the head and neck of the user. Otherwise as alternative 1.

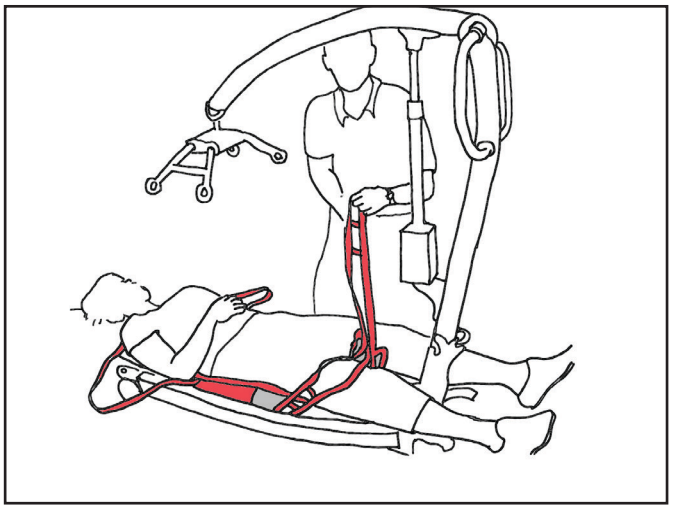
Lowering to floor

Place a pillow on the chassis or on the floor to protect the users head and neck (not necessary if you are using a sling with head support). Otherwise as described above.

Lift and transfer to and from (wheel)chair

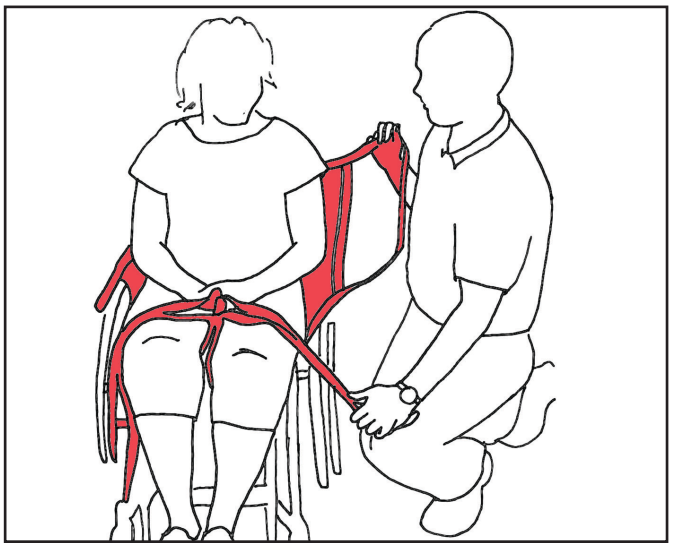
Lift and transfer from (wheel)chair

Fold the sling as described in "Using lifting slings"

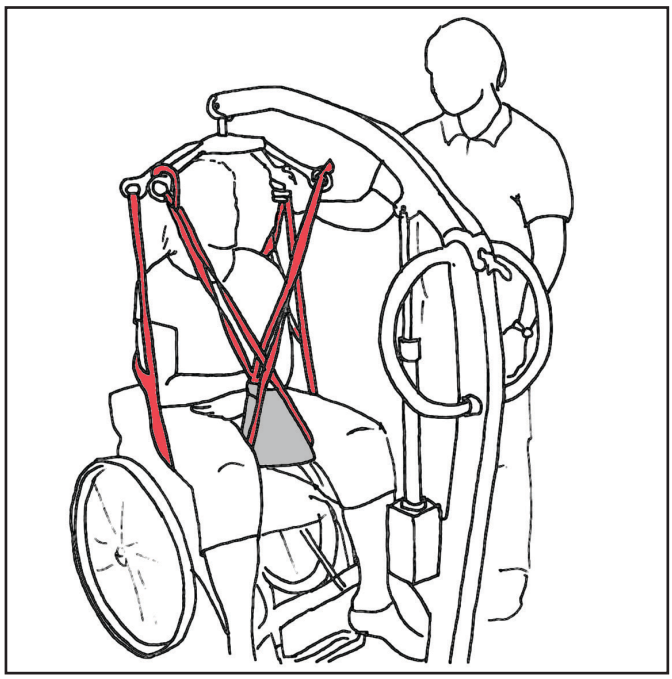


If the users physique and ability allows it, the user should be encouraged to take active part in fitting the sling. The user can lean forward, lift her thighs and help placing the leg section.

Lean the user forward gently, but ensure you continue to support her. Place the folded sling behind the user's back and push it down until it touches the seat of the chair.



The leg sections of the sling are pulled forward and beneath the user's thighs by the loops. The loops are then crossed, one through the other, as shown.



Move the lifter around chair.

If the transfer is from a wheelchair, the brakes must be locked to prevent the wheelchair from rolling away.

Raise/lift user above seat height, and perform the transfer. It is not necessary to lift the person very high.

Lift and transfer to (wheel)chair

Manoeuvre the lifter so that the user is as far back in the (wheel)chair as possible.

If the transfer is from a wheelchair, the brakes must be locked to prevent the wheelchair from rolling away.

When lowering, you can use the following techniques or a combination of them to position and get the user seated far back in the chair.

- push gently on the knees
- pull the loop on the back of the sling
- tilt the chair slightly backwards

Lower the user into chair, unhook sling from suspension and remove the lifter.

Removal of sling

Gently pull leg section to the side, out from the user's thighs. Standing by the side of user, lean her forward - supporting with one hand. Pull sling up from behind her back.

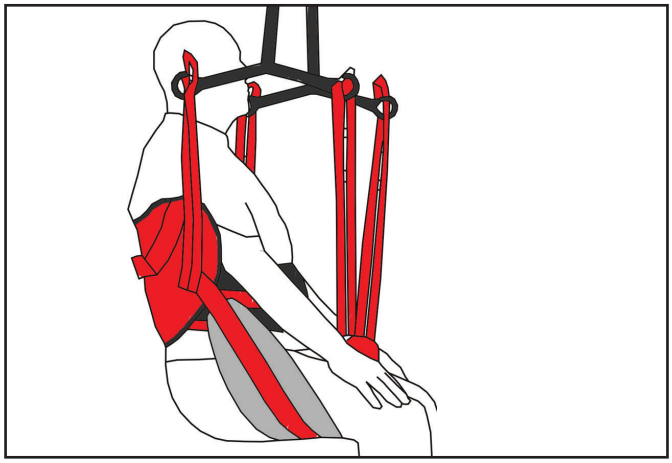
Pulling sharply on sling may cause user to fall forward resulting an injury. Always support the user by keeping one arm around the user's shoulder when fitting or removing the sling (see illustration).

If the users physique and ability allows it, the user should be encouraged to take active part in fitting the sling. The user can lean forward, lift her tights and help placing the leg section.

Bathing

The procedure for lifting to/from the bath is in principle the same as for to/from bed. A special bathing sling is used for this purpose. This sling dries quickly and may be washed at 85°C.

Toileting

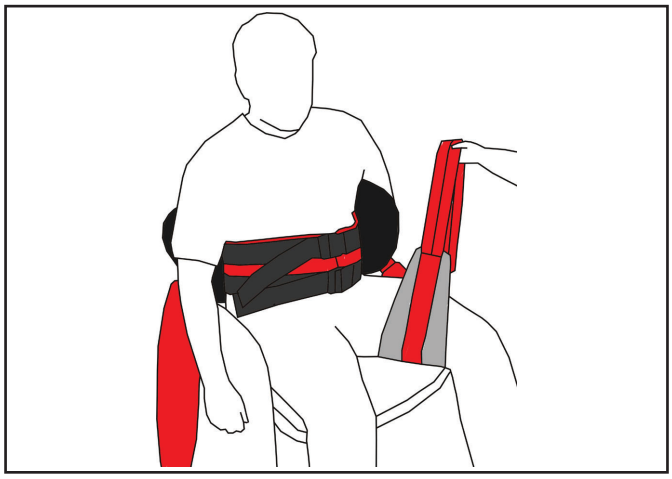


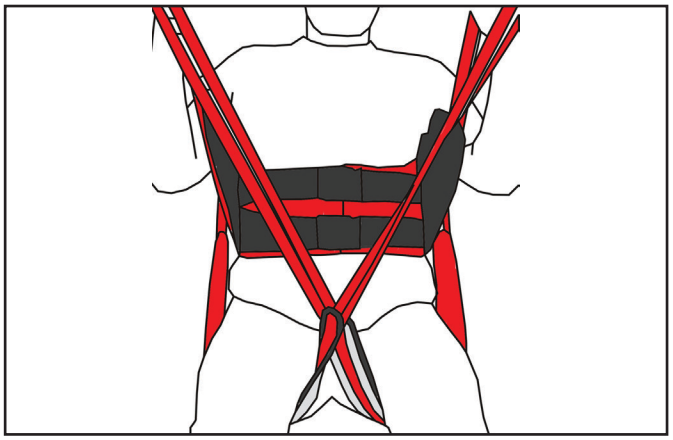
The Molift Easy Toilet Sling is used with the standard 4-point suspensions.

Molift Easy Toilet sling is a toilet sling with a thicker and wider upholstery. It is also available with head-support. The Molift Easy Toilet Comfort sling is easier to fit in narrow environments, and is available with a separate head support

The toilet sling can be washed at 85 ºC, and is fitted as follows:

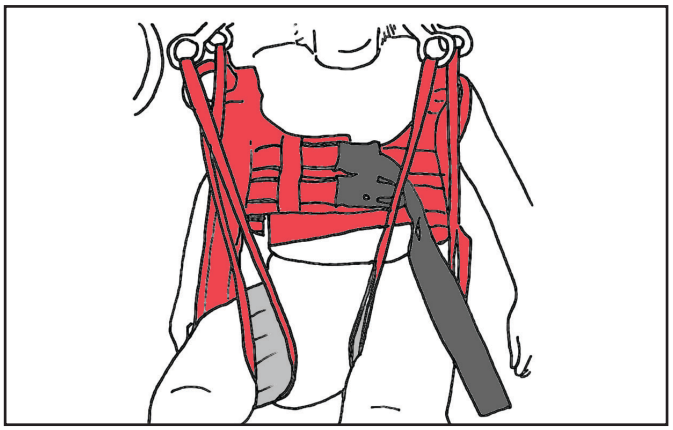
- Insert the sling behind the users back with the grey side away from user.
- Fasten the belt firmly around the user's body.
- Place the leg section under the front part of the thighs and pull the loops up between the thighs.





By pulling the leg sections from the inside and out, you will achieve a wider leg position.

On Molift Easy Toilet Comfort, place the leg section over and down between the thighs and pull outwards from the inner part of the thighs.



By pulling the leg sections from the outside and in, you will achieve a wider leg position.

The leg sections of Molift Easy Toilet Comfort Sling are fitted to separate the legs, therefore they should not be crossed as the other Easy slings.

- Hook the four loops on the suspension as for other slings.
- Position the lifter around the toilet and lower the user.
- Pull the leg sections out of the way. The sling can be left on during bathroom use.

Equipment

Quick release suspensions

Plastic composite

- 4 point, Large, width 645 mm
  Size 645x350 mm, part no: 1430000
- Padding - Part no 1330116

Steel suspensions

- 4 point steel, Large, size 560x350 mm,
  Part no: 1430002
- 4 point steel, Medium, size 450x300 mm,
  Part no: 1430001
- 4 point steel, Small, size 350x240 mm
  Part no: 1430009
- 2 points steel, Large, size 560 mm,
  Part no: 1430007
- 2 points steel, Medium, size 450 mm,
  Part no: 1430006
- 2 points steel, Small, size 350
  Part no: 1430008

Supporting arms

- Part no: 1311052

It is possible to use an alternative column with a set of adjustable handles and supporting arms.

Replace the complete column according to Assembly instructions on page 7.

Read the operating manual that comes together with the Supporting arms

Castor with directional lock

- Part no 1320140

The castor can be changed according to description in Technical Manual by authorized personnel.

This castor has no brake, therefore we recommend to change only one of the castors.

Push the red handle down to lock the direction. Release by pulling the handle up.

Suspension with scale

- Scale with 4 point plastic composite suspension
  Part no: 1431000
- Scale with 4 point steel suspension, Large,
  Part no: 1431001
- Scale with 4 point steel suspension, Medium,
  Part no: 1431002

Read the user manual that comes with the Scale before use.

Change to suspension with scale with quick release as you change to any other suspension.

Molift Stretcher

- Molift Stretcher (excl loops), Part. no: 2150103
  Standard set of lifting loops, Part no: 2150357
  Set of auto strap collector, Part no: 2150356
  Set of Safety belt, Part no: 2150355

The Molift stretcher can be used in combination with all Molift 4-point suspensions on Molift Mover 205.

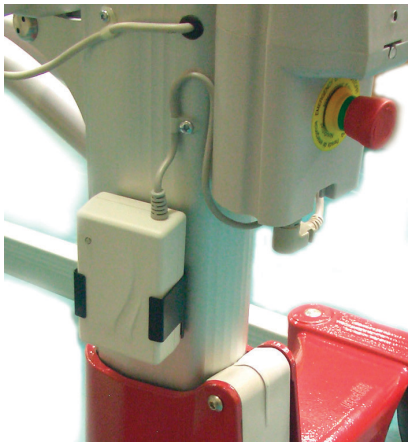
- Molift Stretcher MR compatible
  Part no: 2150108
  Only available with Standard set of lifting loops, Part no : 2150357

Read the operating manual that comes together with the stretcher before use.

Integrated charger

- Part no 1340101

The charger can be mounted on the lifter permanently.

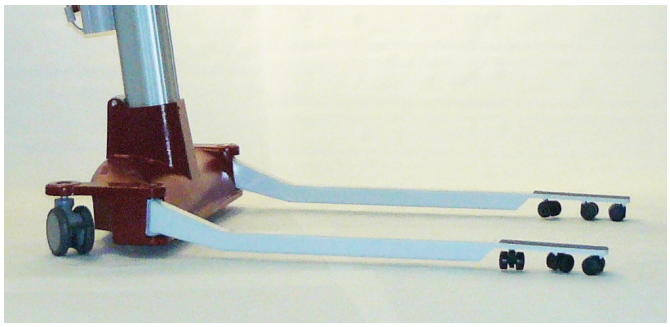


Park the lifter and connect to a wall socket to charge the battery.

Chassis Low base

- Part no 1420002

The chassis can be replaced with one with lower legs. This is suitable for level and even surfaces where the lifter legs must fit under low beds or similar. For normal use it is recommended to use the standard chassis.



Mount the column and lifting arm as described on page 7.

Technical data

Weight, totally:

excl. battery; 39 kg / 86 lbs

incl. battery: 40.6 kg / 89.5 lbs

Height of legs:

60 mm

The lifter can be used as normal, but extra precaution has to be taken on carpets or other kinds of rough surface, as the front castors are smaller. Try to pull the lifter backwards instead of pushing it.

It is necessary to use more push/pull force to move the lifter with small castors. It might be easier to pull than push - always use the drive handles when maneouvring the lifter.

Accessories

Lifting sling

Molift Easy Paediatric Sling

Size	No head support	With head support
XXS	Art. no 3005050	Art. no 3006050
XS	Art. no 3005000	Art. no 3006000

Easy Toilet Sling and Basic Bathing Sling for kids, see the tables below, size XXS and XS.

Molift Easy Sling

Size	No head support	With head support
XS	Art. no 3025000	Art. no 3026000
S	Art. no 3025100	Art. no 3026100
M	Art. no 3025200	Art. no 3026200
L	Art. no 3025300	Art. no 3026300
XL	Art. no 3025400	Art. no 3026400
XXL	Art. no 3025500	Art. no 3026500

Molift Basic Sling

Size	No head support	With head support
XXS	Art. no 3021050	Art. no 3022050
XS	Art. no 3021000	Art. no 3022000
S	Art. no 3021100	Art. no 3022100
M	Art. no 3021200	Art. no 3022200
L	Art. no 3021300	Art. no 3022300
XL	Art. no 3021400	Art. no 3022400
XXL	Art. no 3021500	Art. no 3022500

Molift Basic Bathing Sling

Size	No head support	With head support
XXS	Art. no 3023050	Art. no 3024050
XS	Art. no 3023000	Art. no 3024000
S	Art. no 3023100	Art. no 3024100
M	Art. no 3023200	Art. no 3024200
L	Art. no 3023300	Art. no 3024300
XL	Art. no 3023400	Art. no 3024400
XXL	Art. no 3023500	Art. no 3024500

Molift Basic Full Sling

Size	With head support
S	Part no 3047010
M	Part no 3074011
L	Part no 3047012

Molift Easy Toilet Sling

Size	No head support	With head support
XXS	Art. no 3032050	Art. no 3033050
XS	Art. no 3032000	Art. no 3033000
S	Art. no 3032100	Art. no 3033100
M	Art. no 3032200	Art. no 3033200
L	Art. no 3032300	Art. no 3033300
XL	Art. no 3032400	Art. no 3033400
XXL	Art. no 3032500	Art. no 3033500

Molift Easy Toilet Sling Comfort

Size	No head support	Separate head support
XXS	Art. no 3016050	Art. no 3016055
XS	Art. no 3016000	Art. no 3016001
S	Art. no 3016100	Art. no 3016111
M	Art. no 3016200	Art. no 3016222
L	Art. no 3016300	Art. no 3016333
XL	Art. no 3016400	Art. no 3016444
XXL	Art. no 3016500	Art. no 3016555

Molift Easy Amputee Sling

Size	No head support	With head support
XXS	Art. no 3027050	Art. no 3028050
XS	Art. no 3027000	Art. no 3028000
S	Art. no 3027100	Art. no 3028100
M	Art. no 3027200	Art. no 3028200
L	Art. no 3027300	Art. no 3028300
XL	Art. no 3027400	Art. no 3028400
XXL	Art. no 3027500	Art. no 3028500

Molift Patient Specific Sling

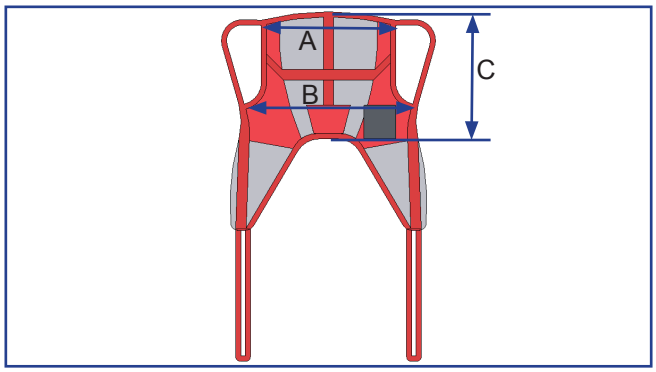
Size	With head support
S	Part no 3050100
M	Part no 3050200
L	Part no 3050300
XL	Part no 3050400

Bag for slings - Art. no 3048000

Molift Hammock Sling

Størrelse	with head support	
One size	Art.nr 3047000	Shell lining
One size	Art.nr 3047001	Wool lining
One size	Art.nr 3047002	Fleece lining

Sling size guide



Easy and Basic Slings

Size	Color code	Recomm. weight (Kg)	A (cm)	B (cm)	C (cm)
XXL	White	230-300	86	130	68
XL	Blue	160-240	76	115	66
L	Green	90-160	66	100	64
M	Yellow	45-95	56	85	62
S	Red	25-50	51	75	60
XS	Light blue	17-25	46	65	58
XXS	Pink	12-17	41	55	56

Choice of sling size depends on both user weight and shape/size of user.

Maintenance

Daily maintenance

Detergents must be pH-neutral. Do not use solvents or strong liquids - this may damage surfaces on the lifter and change the quality of the material. For disinfection when needed; use isopropyl alcohol. Avoid abrasive or etching cleaning products.

Clean surfaces with a damp cloth using an appropriate detergent.

Make sure that there is no damage or cracks on supporting parts. The suspension shall not be used if there are any visible damages or cracks as it may cause personal injury or damage to the lifter.

Monthly maintenance

- Check the lifter, and the suspension especially, for damage. Make sure there is no loose parts on the lifter
- Remove hair and pile from the castors and verify that the castors rotates without abnormal friction
- Verify that the contacts of the hand control is firmly in place, and that the battery fits correctly in the battery holder.
- Clean contact and hand control with spirit or similar to remove grease and dirt
- Verify that the cables for the hand control and charger are intact
- Run the lifter up and down, and legs in and out to verify that it runs normally and without any abnormal noise.

Periodic inspection

Etac AS recommends annual inspection according to the checklist on page 22. The inspection is to be done by an authorized service representative. The owner of the lifter is responsible to ensure that one checklist is filled out and signed for each inspection, and for keeping the checklist.

Service

Molift Mover 205 has a LED on the battery holder indicating if the lifter needs service. The LED gives a green light when the lifter is ready for use.

The electronics has a power save-function which makes the system sleep after a while with no activity. All lights will go out. Activate the system by pushing one of the buttons on the hand control.

The electronics logs how much the lifter is being used, and the load it is used with. After a given time of usage there will be given a signal that the lifter needs service to the service LED. The LED will first give a yellow light, then red. Take contact with your local service representative and order service. If there is a sound together with the light, it means the lifter needs service immediately.

Service lamp	Status
No light	Power save
Green	Ready for use
Yellow	Order service, lifter still works
Red	Perform service
Red + sound	Perform service immediately

Service is done by an authorised service representative according to procedures in the technical manual. The service partner uses the Molift Service Tool to read the data from the lifter, and for logging service and resetting the service LED. The owner is responsible to ensure proper logging and written verification performed by authorised service partner.

A list of spare parts is avalable on request

Troubleshooting

If you have access to other similar lifters, it might be an advantage to "switch parts" in order to locate the error. See the table for troubleshooting:

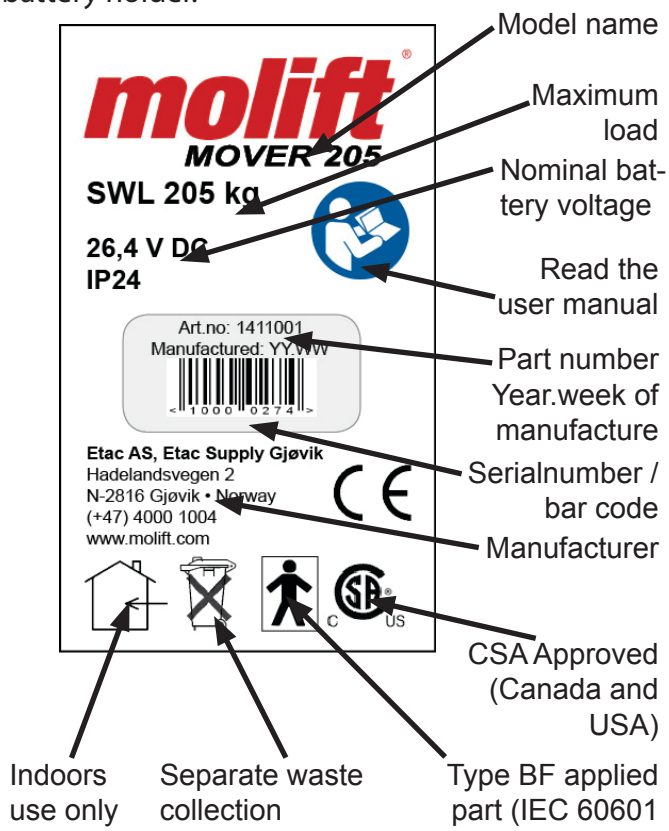
Symptom	Possible cause/*action*
The lifting column is wobbly.	The lock handle is not locked properly or the lifting column is out of position in chassis / *verify position of lifting column and tighten the lock*
The lifter only moves in one direction/ adjustable legs only moves in one direction	Hand control has failed / test with another hand control and change if defective.
	The control electronics has failed / change control electronics / *contact local representative for service*
The lifter moves uncontrolled / adjustable legs moves uncontrolled	Short circuit between hand control and lifter / clean the contact to hand control with spirit to remove grease
	Hand control has failed / change hand control / contact local representative for service
	Defective control electronics / change control electronics / *contact local representative for service*
The lifting arm does not move / adjustable legs does not move	Emergency stop activated (button is pressed in) / *turn button counter clockwise to reset*
	Battery is empty / change to a new battery or charge battery
	The motor connection is not in contact / *Reposition the lifting column, use the Allen wrench on top of column and check the arrow towards chassis (see page 7), clean contact points on column and chassis*
	The cable/contact to hand control has disconnected / *reconnect contact*
	Hand control has failed / test with another hand control and change if defective / *contact local representative for service*
	Defective control electronics / change control electronics / *contact local representative for service*
	Motor is defective / change motor / *contact local representative for service*

If the lifter is run up and down constantly for a longer period, the electronics may be overheated and the lifter will stop. Wait until the lifter is cooled down enough for further use.

If you are not able to solve the fault or problems by yourself using this manual, please contact local authorised service representative. If you do not know whom to contact locally, please contact your dealer or Etac AS to get help.

Labelling

The main label is placed on the column below the battery holder.



Checklist for periodic inspection of Molift Patient Lifters Molift Mover 205 Revision C – 08/2011

COMPULSORY SAFETY CHECK (annual):

OK	Fault	Corrected	Visual inspection
			Whole lifter checked for damage, cracks and deformation and found to be in good order.
			Lifter has been correctly assembled and no parts are missing. (Especially column lock, column attachment and suspension).
			Accessories have been checked. See separate form for sling. Battery charger is an accessory. List the accessories checked:……
			Function checks
			Emergency stop and hand control have been checked and are in working order.
			The lifter has been rolled over the floor (preferably under load) and runs easily and steadily.
			Leg spreading mechanism has been fully extended and retracted (preferably under load), and moves evenly and without noise (stops in correct positions).
			The lifter has been fully raised and lowered (preferably under load) and moves evenly, without noise and the lifting motor shows no runout.
			Servicing required
			Servicing unnecessary because the servicing lamp is on green and the lifter is under 5 years old.

Completed	Compulsory in case of faults under one of the above points:
	The lifter has been removed from service and clearly marked **"OUT OF ORDER".**
	Certified personnel have been summoned to carry out repairs and servicing. Name /Tel./ Fax:……

Completed	Compulsory where lifter has been checked and approved:
	The lifter has passed the safety check and been affixed with the Molift safety check label, duly dated and signed.
	The ticked and signed checklist has been passed to the client and a copy sent to your Molift dealer.

Comments on faults and repairs: ....
....
....

Lifter serial no.: .... other ID no. (if any):.....
Client:..... ....
Inspection carried out by: (Block capitals)..... ..... from.....
Molift certification no. (if any) for inspector/repairer: ... .

The equipment has been tested and is in full working order Yes ☐ No ☐

Place: .....Date: .....Signature:..... .....

CE

DECLARATION OF CONFORMITY

molift by Etac

Etac AS, Etac Supply Gjøvik
Hadelandsveien 2
2816 Gjøvik
NORWAY
Telephone: + 47 4000 1004

hereby declare that:

Molift MOVER 205 patient lifter
and that the accessoires used only together with this product

are in conformity with:

- The Council Directive concerning medical devices 93/42/EEC
and according to this classified as ***medical equipment class 1***
Expiration date : 30th May 2017

Molift MOVER 205 is manufactured in conformity with the following national or international standards that also might implement a harmonised standard:

- ISO10535:2006 Hoists for the transfer of disabled persons - Requirements and test methods
- ISO 14971:2007 Medical equipment - Risik analysis

Notified body:

Danish Technological Institute, Wood Technology
Gregersensvej 3
DK-2630 Taastrup
Denmark
Tel: + 45 7220 2301

NEMKO AS
Gaustadalleen 30
N-0314 OSLO
Norway
Tel: + 47 2296 0342

Title: Site Manager
Name: Knut Martin Frøsaker
Company: Etac AS, Etac Supply Gjøvik

30.05.2012
Date

Signature

Find your distributor
visit Molift.com

molift®
by Etac